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Nov 21 2003 06:56:45

SEARCH  
NOTE

## IUBMB Enzyme Nomenclature

## EC 2.3.1.41

**Common name:** 3-oxoacyl-[acyl-carrier-protein] synthase

**Reaction:** acyl-[acyl-carrier protein] + malonyl-[acyl-carrier protein] = 3-oxoacyl-[acyl-carrier protein] + CO<sub>2</sub> + [acyl-carrier protein]

**Other name(s):** β-ketoacyl synthetase; β-ketoacyl-ACP synthetase; β-ketoacyl-acyl carrier protein synthetase; β-ketoacyl-[acyl carrier protein] synthase; β-ketoacylsynthase; condensing enzyme; 3-ketoacyl-acyl carrier protein synthase; fatty acid condensing enzyme; acyl-malonyl(acyl-carrier-protein)-condensing enzyme; β-ketoacyl acyl carrier protein synthase

**Systematic name:** acyl-[acyl-carrier-protein]:malonyl-[acyl-carrier-protein] C-acyltransferase (decarboxylating)

**Links to other databases:** [BRENDA](#), [EXPASY](#), [KEGG](#), [WIT](#), CAS registry number: 9077-10-5

**References:**

1. Alberts, A.W., Majerus, P.W. and Vagelos, P.R. Acetyl-CoA acyl carrier protein transacylase. *Methods Enzymol.* 14 (1969) 50-53.
2. Prescott, D.J. and Vagelos, P.R. Acyl carrier protein. *Adv. Enzymol. Relat. Areas Mol. Biol.* 36 (1972) 269-311. [Medline UI: [73004927](#)]
3. Toomey, R.E. and Wakil, S.J. Studies on the mechanism of fatty acid synthesis. XVI. Preparation and general properties of acyl-malonyl acyl carrier protein-condensing enzyme from *Escherichia coli*. *J. Biol. Chem.* 241 (1966) 1159-1165. [Medline UI: [66132520](#)]

[EC 2.3.1.41 created 1972]

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# STN SEARCH NOTE

09/980,945 SEARCH STRATEGY

(FILE 'HOME' ENTERED AT 15:15:14 ON 25 NOV 2003)

FILE 'CAPLUS' ENTERED AT 15:15:27 ON 25 NOV 2003

E QIU XI/AU 25

L1 6 S (E112) AND (FABH OR KETOACYL)

E JANSON C A/AU 25

L2 6 S (E3 OR E11 OR E12 OR E13) AND (FABH OR KETOACYL)

FILE 'MEDLINE, AGRICOLA, CAPLUS, BIOSIS, EMBASE, WPIDS' ENTERED AT  
15:28:22 ON 25 NOV 2003

L3 393 S FABH OR ((KETOACYL OR OXOACYL) (5A) III)

L4 34 S L3 AND CRYSTAL?

L5 13 DUP REM L4 (21 DUPLICATES REMOVED)

L6 22 S KAS (W) III!

L7 0 S L6 AND CRYSTAL?

=>

EAST  
SEARCH  
NOTE

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1	BRS	L1	78	fabh	USPAT; US-PGP UB; EPO; JPO; DERWE	2003/11/25 15:03
2	BRS	L2	14	i1 and crystal	USPAT; US-PGP UB; EPO; JPO; DERWE	2003/11/25 15:45
3	BRS	L3	196	ketoacyl near5 (III or "3")	USPAT; US-PGP UB; EPO; JPO; DERWE	2003/11/25 15:12
4	BRS	L4	41	i3 and crystal	USPAT; US-PGP UB; EPO; JPO; DERWE	2003/11/25 15:25
5	BRS	L5	3	2000075169.pn.	USPAT; US-PGP UB; EPO; JPO; DERWE	2003/11/25 15:25
6	BRS	L6	0	00075169.pn.	USPAT; US-PGP UB; EPO; JPO; DERWE	2003/11/25 15:25
7	BRS	L7	23	kas adj III!	USPAT; US-PGP UB; EPO; JPO; DERWE	2003/11/25 15:46

	Type	L #	Hits	Search Text	DBs	Time Stamp
8	BRS	L8	3	i7 and crystal	USPAT; US-PGP UB; EPO; JPO; DERWE	2003/11/25 15:46